## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application;

## **Listing of Claims:**

- 1. (Currently amended) A system, comprising:
  - a central processing unit (CPU);
  - a graphical user interface (GUI) coupled to the CPU; and
  - a memory coupled to the CPU, wherein the memory stores a bump map application and a data extraction application executed by the CPU, wherein the bump map application displays a plurality of editable textual character groups representative of a plurality of bumps, the textual character groups that are arranged on the graphical user interface—GUI according to a relative coordinate position of the bumps with respect to an origin; and
  - wherein the memory also stores a track definition application executed by the CPU, the track definition application displaying, on the GUI, a plurality of editable numeric parameters corresponding to tracks of an integrated circuit metal layer.
  - wherein the data extraction application automatically extracts data from the bump map application <u>and the track definition application</u> for use by a router application.
- 2. (Original) The system of claim 1 further comprising an input device coupled to the CPU, wherein the input device is used with the bump map application such that a user is able to change a position of each textual character group displayed on the graphical user interface.
- 3. (Original) The system of claim 2 wherein the input device permits the user to edit textual characters of the textual character groups.

164493,01/2162,18300 Page 3 of 13 HP PONO 200310231-1

- 4. (Original) The system of claim 1 wherein the bump map application further displays a plurality of cells, wherein each cell is adapted to contain a textual character group.
- 5. (Original) The system of claim 4 wherein each cell comprises information regarding a two-dimensional space.
- 6. (Original) The system of claim 4 wherein each cell is shaded in one of a plurality of colors, wherein each color signifies information to a user.
- 7. (Currently amended) The system of claim 1 further comprising a track definition application executed by the CPU, wherein the track definition application displays on the graphical user interface GUI one or more sets of intersecting columns and rows containing editable information that describes tracks of an integrated circuit.
- 8. (Original) The system of claim 7 wherein the bump map application and the track definition application are a single application that uses a single source file.
- 9. (Currently amended) The system of claim 7 wherein the data extraction application extracts track-related data from the track definition application and organizes the track-related data for use by [[a]] the router application.
- 10. (Original) The system of claim 7 wherein at least one of the sets of intersecting columns and rows displays information selected from the group consisting of:
  - a name associated with a set of intersecting rows and columns;
  - a metal layer associated with a set;
  - a label associated with a track;
  - a width of the track:

184493,01/2162,18300 Page 4 of 13 HP PDNO 200310231-1

> a space requirement on a left side of the track; a space requirement on a right side of the track; an offset of the track from a predetermined origin; a pitch between tracks; and comments related to the track.

- 11. (Currently amended) The system of claim 7 wherein at least one of the sets of intersecting columns and rows comprises a macro definition, wherein at least some-a plurality of track parameters contained in the macro definition are automatically entered when one or more using a predetermined macro label[[s]] associated with tracks are entered.
- 12. (Original) The system of claim 11 wherein at least one of the sets of intersecting columns and rows contains a name associated with the macro definition and coordinates defining a two-dimensional region, wherein track parameters associated with the macro are used by a router application to lay out tracks in the two-dimensional region.
- 13. (Original) The system of claim 1 wherein the origin is associated with an integrated circuit layout.
- (Currently amended) A method, comprising;

creating a data structure;

extracting bump locations into the data structure from relative physical positions of bump labels in a table, wherein each bump label is associated with a bump;

determining if a macro defining a plurality of tracks exists;

if a macro defining a plurality of tracks exists, extracting track parameters into the data structure based on the macro; and

if a macro defining a plurality of tracks does not exist, extracting track

parameters into the data structure based on individual track

definitions.and

displaying bumps on a graphical user interface using the data structure.

15. (Original) The method of claim 14 further comprising extracting at least one type of data contained in the table selected from the group consisting of:

spacing between bumps;

size of bumps; and

bump labels.

- 16. (Original) The method of claim 14 further comprising extracting coordinate positions of input/output circuitry of an integrating circuit into the data structure.
- 17. (Original) The method of claim 16 further comprising: writing out the bump data and the coordinate positions of the input/output circuitry to a router application; and displaying straight-line connections between locations of bumps and

locations of input/output circuitry associated with each bump.

- 18. (Canceled).
- 19. (Currently amended) The method of claim [[18]] 14 further comprising: writing out the bump data, the coordinate positions of the input/output circuitry, and the track parameters to a router application; and displaying bumps, input/output circuitry locations, and tracks to a user according to the bump data, the coordinate positions of the input/output circuitry, and the track parameters.

- 20. (Original) The method of claim 19 further comprising editing at least one type of data selected from the group consisting of the bump data and the track parameters in response to said displaying by accessing a single source file.
- 21. (Withdrawn) A computer readable medium containing instructions that are executable by a computer system, and when executed the instructions implement a method comprising:
  - displaying one or more textual editable tables, wherein information contained in at least one of the tables corresponds to a metal layer pattern and wherein at least one of the tables associates the information with a region of an integrated circuit; and
  - editing the information in at least one of the tables to change a metal layer configuration of the integrated circuit.
- 22. (Withdrawn) The computer readable medium of claim 21 wherein at least one of the tables comprises a plurality of cells, wherein a location of each cell in the at least one of the tables correlates to a coordinate position with respect to an integrated circuit and wherein each cell is adapted to contain a bump label associated with a bump.
- 23. (Withdrawn) The computer readable medium of claim 21 wherein the instructions implement a method further comprising automatically extracting the information from the one or more editable tables for use by a router application.
- 24. (Withdrawn) The computer readable medium of claim 23 wherein automatically extracting data from the two or more editable tables comprises accessing data defined by macros.
- 25. (Withdrawn) The computer readable medium of claim 21 wherein the two or more tables are part of the same source file.

164493.01/2182 18300 Page 7 of 13 HP PDNO 200310231-1

- 26. (Currently amended) A system, comprising:
  - a CPU:
  - a graphic user interface coupled to the CPU; and
  - a memory coupled to the CPU, wherein the memory comprises computer readable instructions that when executed by the CPU provide:
    - means for displaying bump positions on the graphic user interface using textual bump labels, wherein a location of a displayed bump label corresponds to a position of a bump relative to a predetermined origin of an integrated circuit; and
    - means for extracting the bump positions by interpreting locations of the bump labels displayed on the graphical user interface for use by a router application; and
    - means for editing the textual bump labels by displaying straight-line connections between bumps and input/output circuitry prior to displaying tracks between the bumps and input/out circuitry.
- 27. (Original) The system of claim 26 wherein the computer readable instructions when executed by the CPU further provide means for condensing editable metal layer information viewable to a user.
- 28. (Original) The system of claim 27 wherein the computer readable instructions when executed by the CPU further provide means for extracting the condensed editable metal layer information for use by a router application.